



RoboCupJunior Rescue A&B – Engineering Journal Template

RoboCupJunior Rescue - Technical Committee 2014

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General Guidelines for Recording Your Journal

1. Using journal book to record ideas, inventions, experimentation records, observations and all work details is a vital part of any engineering/laboratory process.
2. Always record entries legibly.
3. Your journal could be kept electronically or with traditional notebook.
4. Each entry should be done immediately after your work is done with information including date, original concepts, data, and diagram for your design.
5. Use headings and bullet-points to organize your entries.
6. Keep each paragraph to a single point. Remember that you are not writing an essay, but steps/stages of your work.
7. Label all figures and calculations.
8. The purpose of journal writing is not just to report to the judges, but for your future. While keeping your journal, keep this in mind: “a few years later, when I look back my journal book, I should be able to follow through my journal and get a good idea on the process which I used to arrive my invention. If one day I would apply for a patent for my work, I should be able to follow through my journal to replicate my project.”

The Engineering Journal should include the following:

- Any new findings and progress, modifications made on analysis, algorithms, or any other concepts relating to your implementation approach should be recorded. Some examples include a modification of an algorithm; a new and sophisticated feature discovered about one of your devices, or other finding which results in a modified approach.
- The documentation should also include references, web sites, code examples, or other data that are discovered and used for the development of your robot(s), strategies, and algorithm.
- **The Progress/Status:**
 - The section describes the progress/status should be updated most extensively. We would expect to see one or more pages of progress description every week. With a team with large number of team members, it is suggested to include one page progress report per team member. This section could be lengthy and detailed documentation.
 - It is highly recommended to include diagrams and/or tables, etc.
 - It is very important to capture every progress including both successful developments and development paths that have been terminated with clear explanations.



General template for Recording Your Journal

Date:

(If journal writing is done by individual team member, include his/her name as well.)

- Every page must have a date.
- Should be at the top corner of each every page.

Agenda:

- List of tasks for the day.
- This serves as a way for you to collect your thought and set goals for the day/meeting.

Progress/Status:

- Should reflect what you have done for today, include more than what has been listed in the "Agenda" section.
- Should highlight interesting findings, especially those unexpected.
- Provide a heading to prompt attention to big discovery.

Issues/Solutions (Use numbered entries)

Hardware:

1. Outstanding issues on hardware development.
2. State "none" if there was absolutely no issue.
3. Content must be informative and contain substance. Information like "chassis does not work" does not provide any useful information. Instead, include more details like, "Chassis lacks of bracing... too much friction on the axles so the chassis is sacking in the middle..."

Software:

1. Outstanding issues on software development
2. Again, content must be informative... do not just state "navigation is not working"... that is not useful! Add more information in detail.

Solutions

Hardware:

- If this is a solution for something happened today, it could be recorded in the "Status" section.
- If this is to resolve an issue happened before today, you should refer it by the title of the issue, e.g. Claw failed to deploy: ...

Software:

- Same as the hardware section.